

084734592

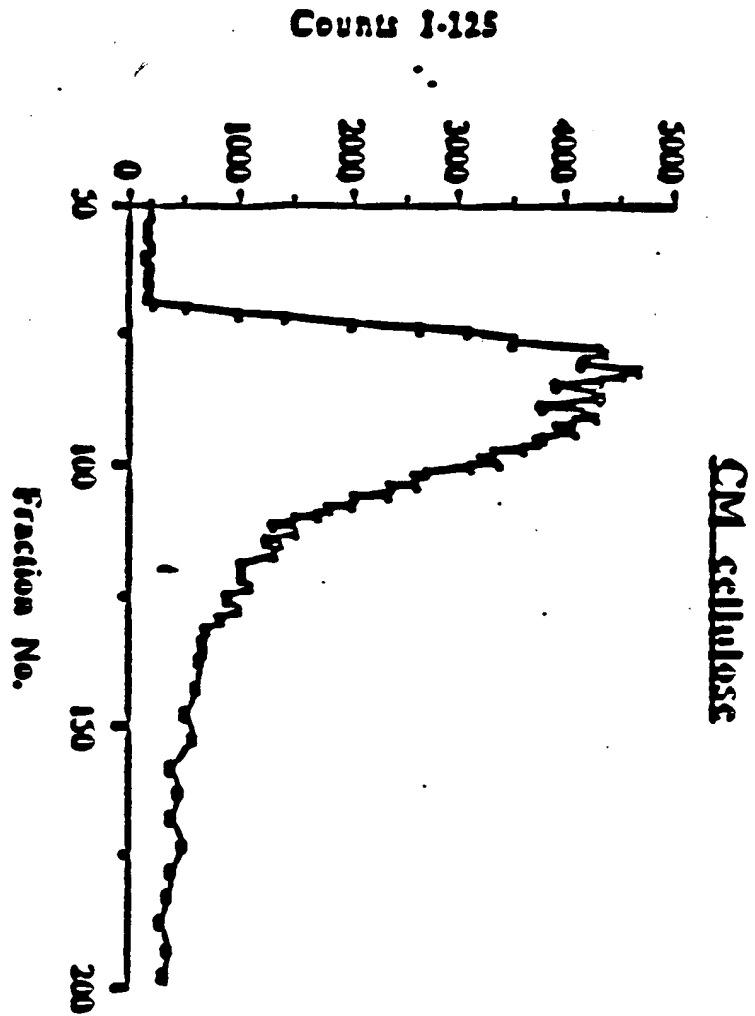


Figure 1

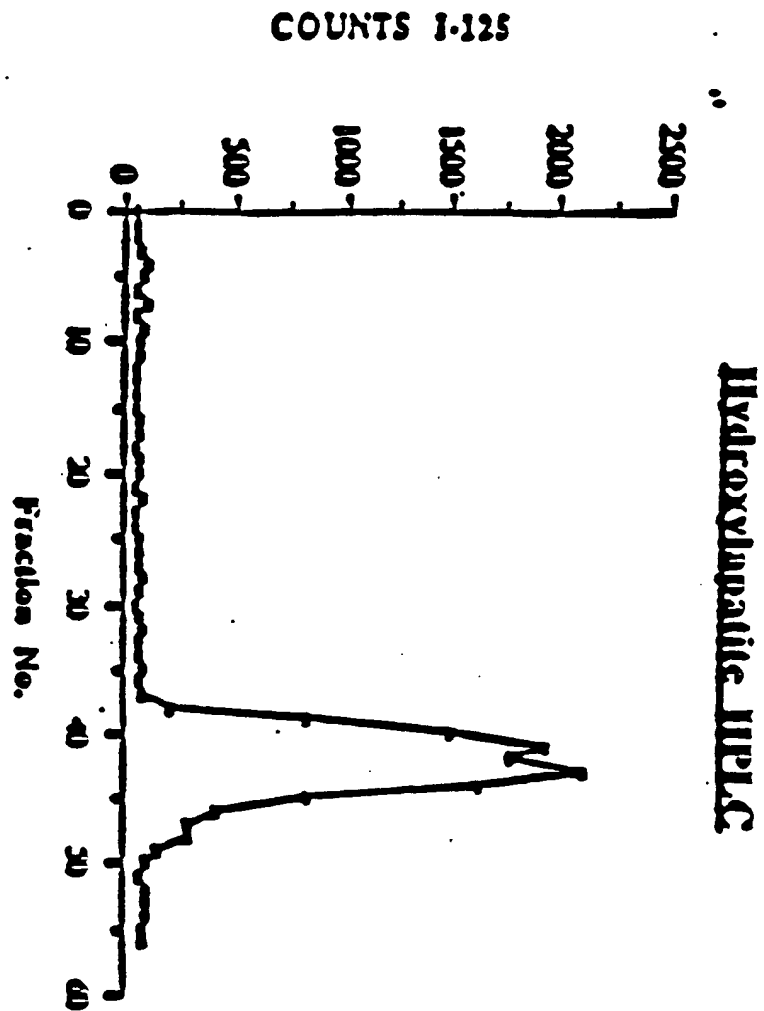


FIGURE 2

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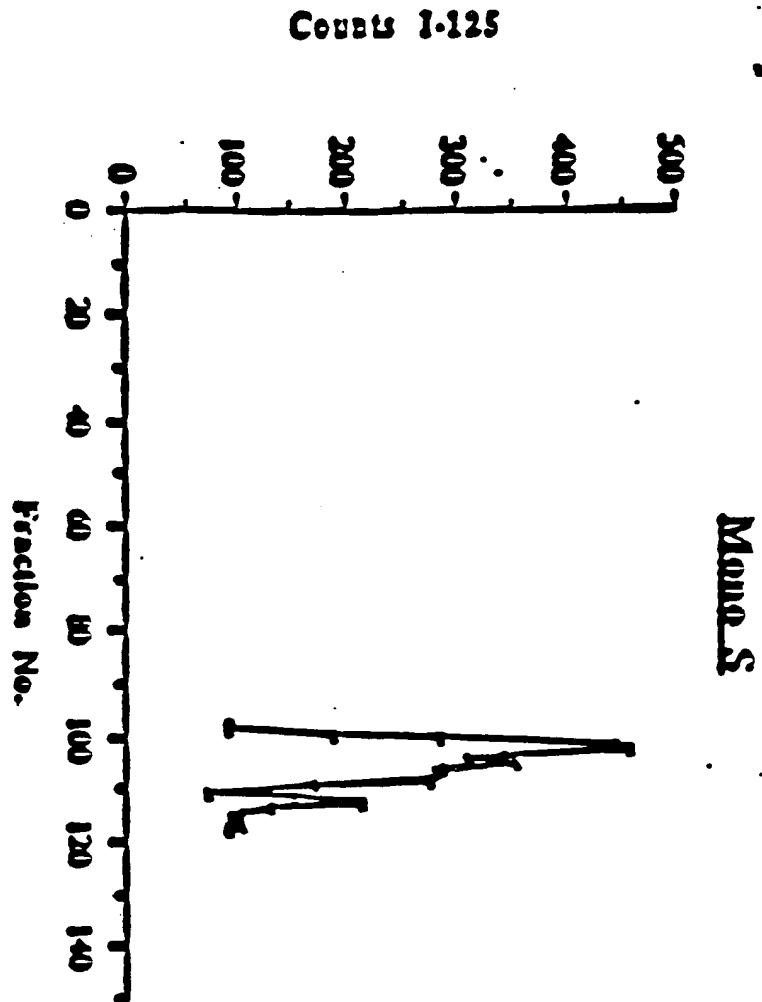


FIGURE 3

COUNT 1-125

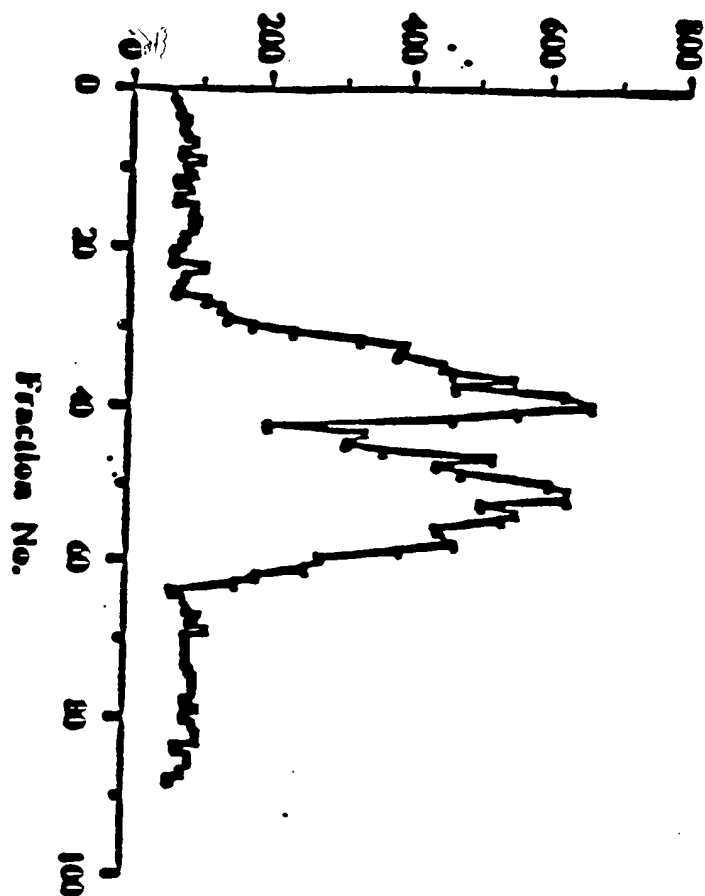


FIGURE 4

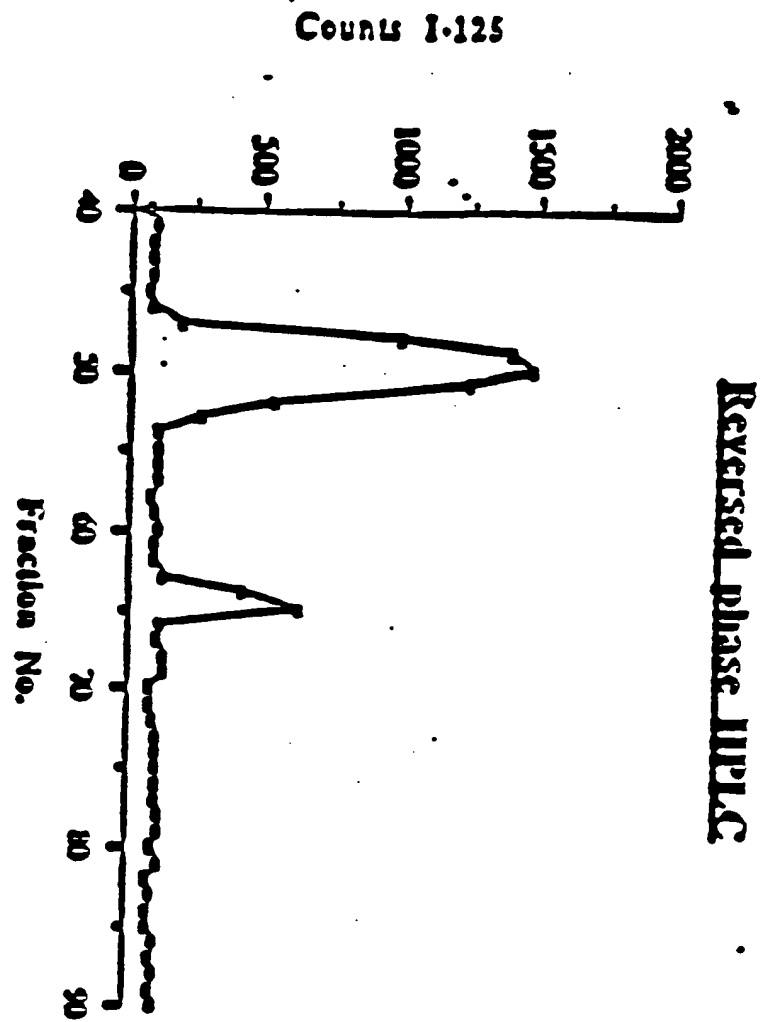


FIGURE 5

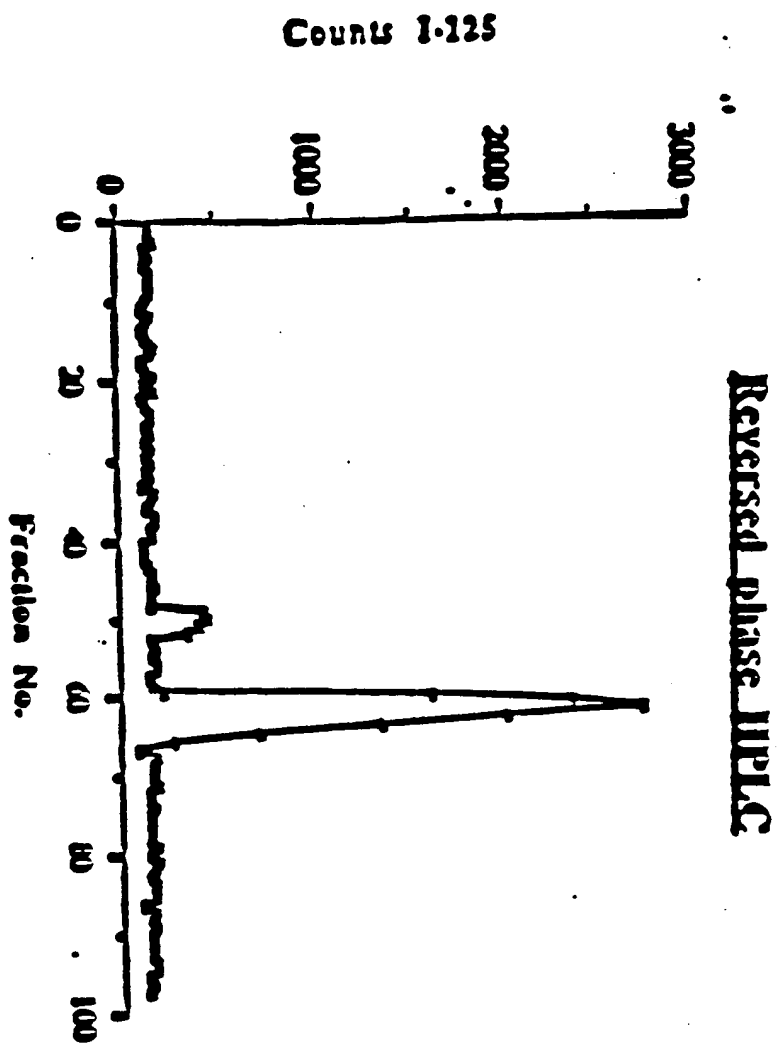


FIGURE 6

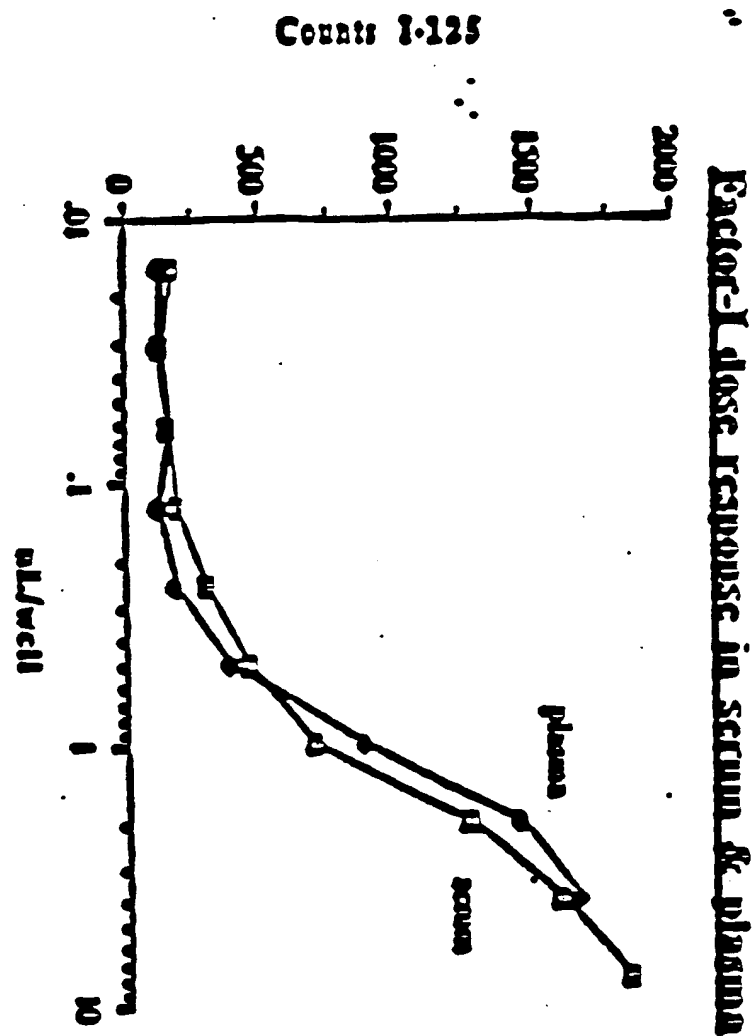


FIGURE 7

Count 1-125

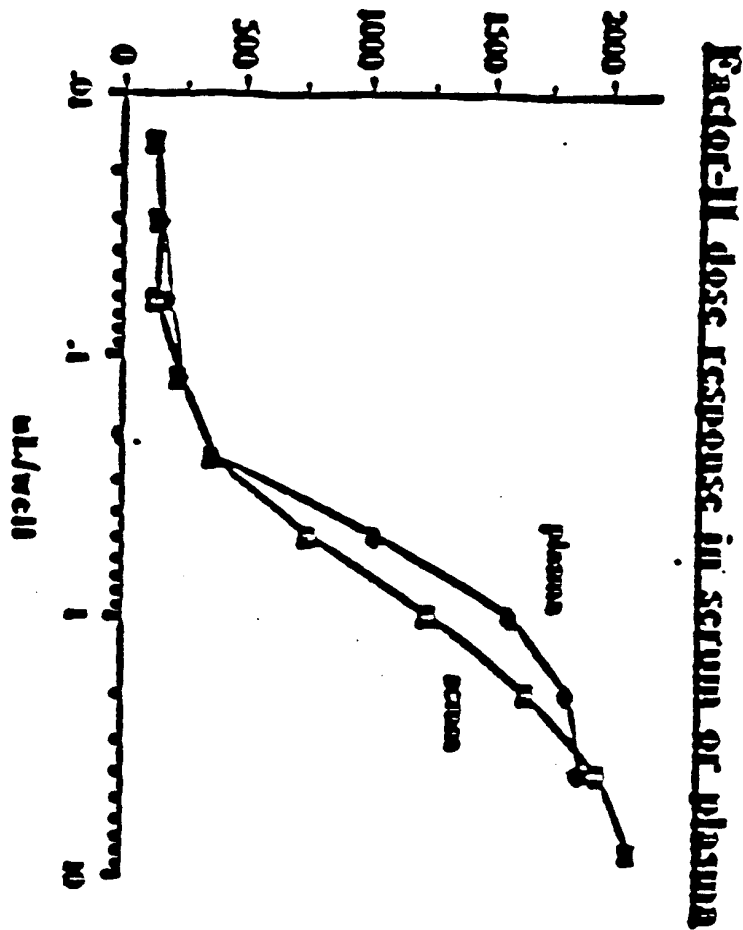


FIGURE 2

PICURE 9

" Membrane

JF4 01 F K Q D A N T E (smq id noi 1)

Torpedo popples

JF4 02 K M A 3 L A D E Y E Y M X K . (smq id noi 2)
JF4 03 K M T E T 3 S S Q L X L K . (smq id noi 3)
JF4 04 K M K L Q E M W A E (smq id noi 4)
JF4 05 K M L Q E K M A (smq id noi 5)
JF4 06 K M I K S E M A Q L 3 I Q D T A K . (smq id noi 6)
JF4 07 K M A 3 B A D E Y E Y M M K . (smq id noi 7)
JF4 08 K M I K Q E M P Q L S I G D V A K . (smq id noi 8)
JF4 09 K M M S E Y A F F Y O T X N . (smq id noi 9)
JF4 10 K M S E M P Q L 3 I Q D T A K . (smq id noi 10)
JF4 11 K M A Q Y F A E X A N . (smq id noi 11)
JF4 12 K M K L E F L X A K . (smq id noi 12)
JF4 13 K M T E M A S E O G A (smq id noi 13)
JF4 14 K M A K E A L A L K . (smq id noi 14)
JF4 15 K M F V L O A K K . (smq id noi 15)
JF4 16 K M L Q E M W (smq id noi 16)

0000-1

Protonic Vb popples

JF4 17 E T O P D P Q O I L K K V P M V I Q A Y T (smq id noi 169)
JF4 18 E Y K C L K F K W F K K A T V M (smq id noi 17)
JF4 19 E A K Y F S K X D A (smq id noi 18)
JF4 20 E X K F Y V P (smq id noi 19)
JF4 21 E L S F A S V N L P Q C P P Q V D P M V S F P V A L Ubbels (smq id noi 20)

Ubbels

Figure 10

OCF-1 01 FRGDANTE	(300) 10 001 1
OCF-1 02 ASLADERYEMX	(300) 10 001 22)
OCF-1 03 TETSSSGLXK	(300) 10 001 23)
OCF-1 07 ASLADERYEMX	(300) 10 001 24)
OCF-1 11 ACRYFAEXAN	(300) 10 001 25)
OCF-1 13 TTEMASZOGA	(300) 10 001 26)
OCF-1 14 AKELALALX	(300) 10 001 27)
OCF-1 15 FVLQANK	(300) 10 001 28)
OCF-1 17 ETOPDGOILKNVIGAYT	(300) 10 001 29)
OCF-1 18 EYKCLKFNFNKATVM	(300) 10 001 17)
■	
OCF-1 20 EXKRVVP	(300) 10 001 19)
OCF-1 22 KLEFLXAK	(300) 10 001 22)

Figure 11

Trypsin peptides		
GGF-II 01	KR VHQVWAAK*	(SR ID NO: 45)
GGF-II 02	KR YIFFMEPEAXSSG	(SR ID NO: 46)
GGF-II 03	KR LGAWGPPAFPVXY	(SR ID NO: 47)
GGF-II 04	KR WFVVIEGK*	(SR ID NO: 48)
GGF-II 05	KR ALAAAGYDVEK*	(SR ID NO: 164)
GGF-II 06	KR LVLR*	(SR ID NO: 165)
GGF-II 07	KR XXYPGGQITN	Trypsin (SR ID NO: 166)
GGF-II 08	KR ASPVSYGSGVQELVQR*	(SR ID NO: 49)
GGF-II 09	KR VCLLTVAALPPT	(SR ID NO: 50)
GGF-II 10	KR DLLLXV	(SR ID NO: 53)
Histone H1		
Lysyl Endopeptidase-C peptides		
GF-II 11	KVHQVWAAK*	(SR ID NO: 51)
GF-II 12	KASLADSGEYMXK*	(SR ID NO: 52)

Figure 12

A

GGF-II 01	VHQVWAAK	(SEQ ID NO: 43)
GGF-II 02	YIFFMEPEAXSSG	(SEQ ID NO: 46)
GGF-II 03	LGAWGPPAFPVXY	(SEQ ID NO: 47)
GGF-II 04	WFVYIEGK	(SEQ ID NO: 48)
GGF-II 08	ASPYSVGSVOELVQR	(SEQ ID NO: 49)
GGF-II 09	VCLLTVAALPPT	(SEQ ID NO: 50)
GGF-II 11	KVHQVWAAK	(SEQ ID NO: 51)
GGF-II 12	KASLADSGEYMXK	(SEQ ID NO: 52)

B

Novel Factor II Peptides - others

GGF-II 10	DLLLXY	(SEQ ID NO: 53)
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Comparison of ^3H -JSA and ^{125}I -UdR counting methods for the
DNA synthesis assay in Schwann cell cultures

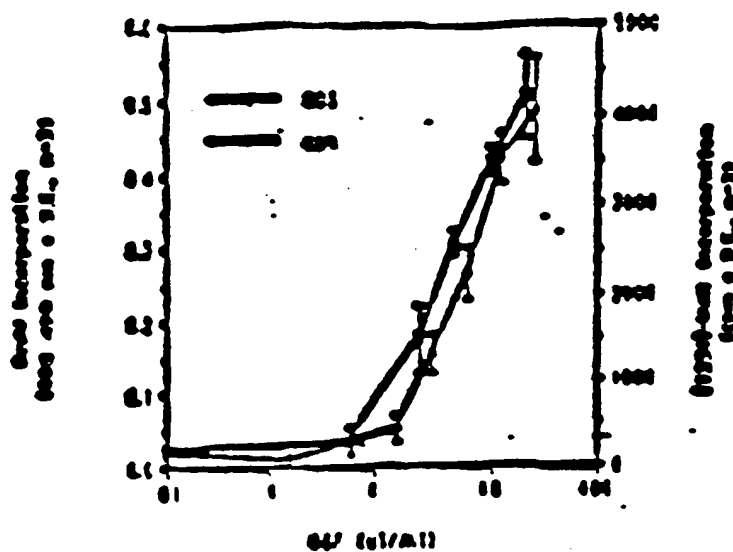


Fig. 13

Comparison of Br-UdR immunoreactivity and
Br-UdR labelled cell number

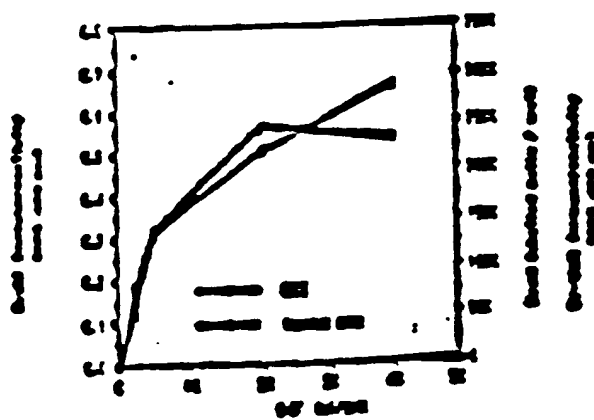


Fig. 14a

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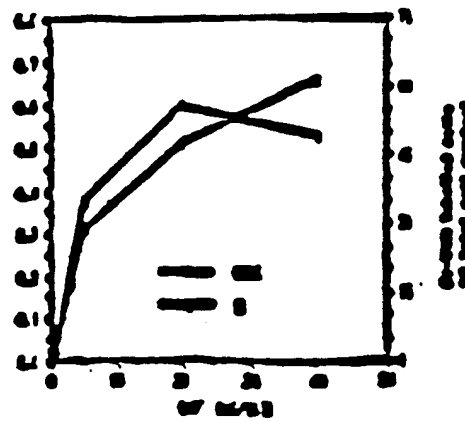


Fig. 14b.

Mitogenic response of rat sciatic nerve Schwann cell to GGFs



Fig 15

DNA synthesis in rat sciatic nerve Schwann cells and 3T3 fibroblasts in the presence of GGFs

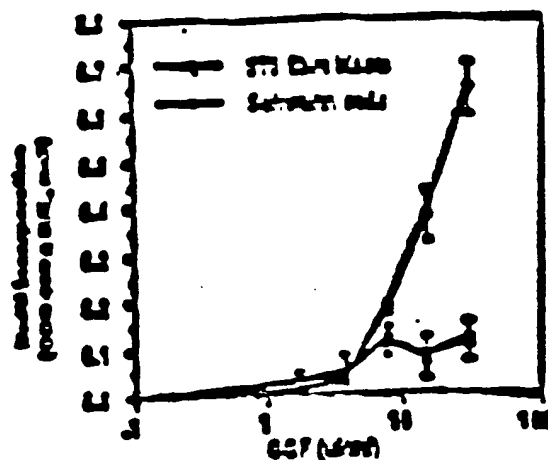


Fig 16.

Mitogenic response of BHK21 C13 cells to FCS and GGFs

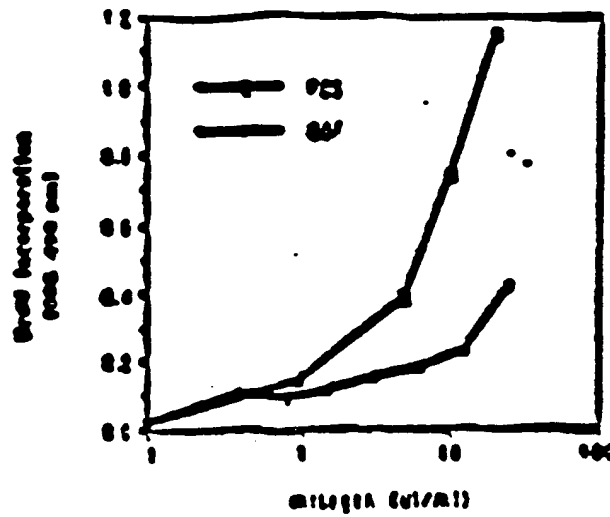


Fig. 17

Survival and proliferation of BHK21 C13 cell microcultures after 48 hours in presence of GGFs

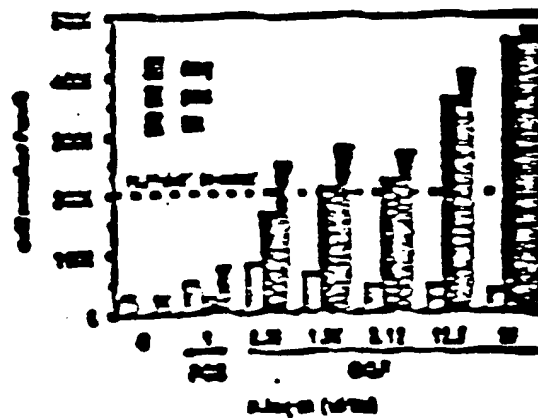


Fig. 18.

SEQUENCE OF OLIGONUCLEOTIDE PROBES FOR FACTOR I AND FACTOR II

Oligo	Sequence	Peptide	
535	TTTAAAGGCGATGCTATACI	6071-1	(G H H H H H H H: 54)
536	CATTATTTCTATTTCTACI	6071-2	(G H H H H H H H: 55)
537	TGTTGCTAGGCTTTCTTTI	6071-13	(G H H H H H H H: 56)
538	TGTTGCTAGGCTTTCTTTI	6071-13	(G H H H H H H H: 57)
539	CCATTAACCTAGGCTTTI	6071-17	(G H H H H H H H: 58)
540	GCGCGGAGCTTTCTACI	60711-1	(G H H H H H H H: 59)
541	GCTTGGCTTCTATTTTAAI	60711-2	(G H H H H H H H: 60)
542	GCTTCTATTAAGGCTTAAI	60711-4	(G H H H H H H H: 61)
543	TGCGGAGTAACTGCGI	6071-11	(G H H H H H H H: 62)
544	GCGCGAGGCTTCTTTACI	6071-14	(G H H H H H H H: 63)
545	GCGGCTTAACTTTCTTTACI	6071-14	(G H H H H H H H: 64)
546	TTTCTTCTTTCTAGGCTTAAI	6071-18	(G H H H H H H H: 65)
551	TTTCTTCTTTCTAGGCTTAAI	6071-18	(G H H H H H H H: 66)
561	TGTAAGGCTTCTTACI	60711-8	(G H H H H H H H: 67)
562	TGTAAGGCTTCTTACI	60711-8	(G H H H H H H H: 68)
609	CATTATTTCTGCTTCTGCTI	60711-11	(G H H H H H H H: 69)
610	CATTATTTCTGCTTCTGCTI	60711-11	(G H H H H H H H: 70)
649	TCATTTCTGCTTAACTTTI	60711-12	(G H H H H H H H: 71)
650	TCATTTCTGCTTAACTTTI	60711-12	(G H H H H H H H: 72)
651	TCATTTCTGCTTAACTTTI	60711-12	(G H H H H H H H: 73)
652	TCATTTCTGCTTAACTTTI	60711-12	(G H H H H H H H: 74)
653	TCATTTCTGCTTAACTTTI	60711-12	(G H H H H H H H: 75)
654	TCATTTCTGCTTAACTTTI	60711-12	(G H H H H H H H: 76)
655	TCATTTCTGCTTAACTTTI	60711-12	(G H H H H H H H: 77)
656	TCATTTCTGCTTAACTTTI	60711-12	(G H H H H H H H: 78)
659	AGTAAGGCTTCTGCTTAAI	6071-13	(G H H H H H H H: 79)
660	AGTAAGGCTTCTGCTTAAI	6071-13	(G H H H H H H H: 80)
661	CATGCTTCTGCTTAACTI	60711-1	(G H H H H H H H: 81)
662	TTTCTTCTTAACTTAACTI	60711-4	(G H H H H H H H: 82)
663	AAAGGCTTCTGCTTAACTI	6071-1	(G H H H H H H H: 83)
664	AAAGGCTTCTGCTTAACTI	6071-1	(G H H H H H H H: 84)
665	CTTCTTCTTAACTTAACTI	6071-14	(G H H H H H H H: 85)
666	CTTCTTCTTAACTTAACTI	60711-8	(G H H H H H H H: 86)
667	CTTCTTCTTAACTTAACTI	60711-8	(G H H H H H H H: 87)
668	CTTCTTCTTAACTTAACTI	6071-17	(G H H H H H H H: 88)

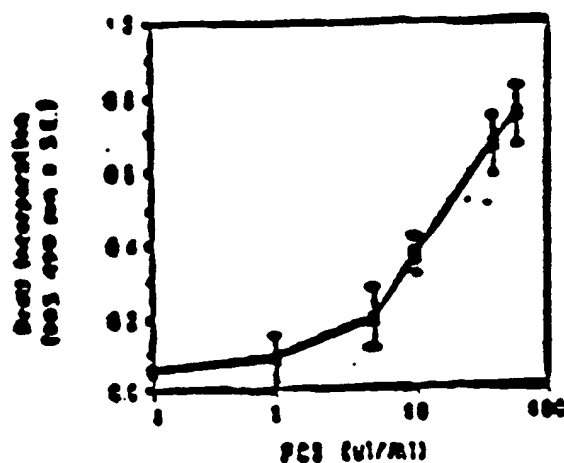


Fig 19.

Mitogenic response of C6 cells to aFGF and GGFs

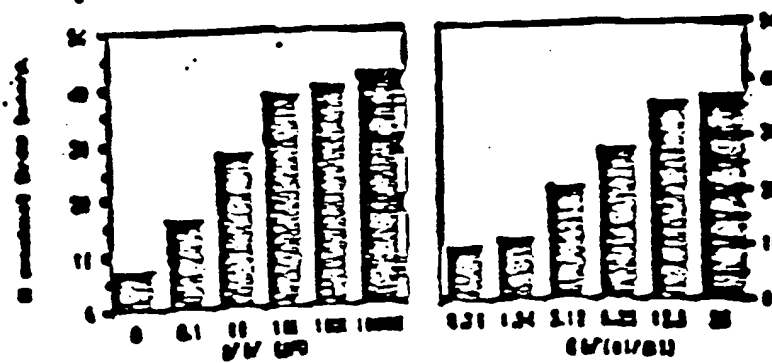


Fig 20

Figure 22: Factor 21 Data Summary

Figure 22: Factor 21 Data Summary

Figure 22: Factor 21 Data Summary

Figure 22: Factor 21 Data Summary

Figure 22: Factor 21 Data Summary

Figure 22: Factor 21 Data Summary

(SEQ ID NO: 89)

FIGURE 22

RNA PRIMERS FOR FACTOR I AND FACTOR II

PAGE 23

Degenerate RNA primers

Oligo	Sequence	Peptide	
657	CCGAAATTCCTGACGACAAACGACATCGAYCGCGG!	GG71-17	(SH D NO: 90)
658	AAGCAATCCTGACGCTGTATGCGCGCAATACCATGCG!	GG71-17	(SH D NO: 91)
667	CCGAAATTCCTGACGCGCGAYTCGCGCAATATATG!	GG711-12	(SH D NO: 92)
668	CCGAAATTCCTGACGCGCGAYATTCGCGCAATATAT!	GG711-12	(SH D NO: 93)
669	AAGCAATCCTGACGCGCGCATATATTCGCGCAATTC!	GG711-12	(SH D NO: 94)
670	AAGCAATCCTGACGCGCGCATATATTCGCGCAATTC!	GG711-12	(SH D NO: 95)
671	CCGAAATTCCTGACGCGCGCATATATTCGCGCAATTC!	GG711-1	(SH D NO: 96)
672	CCGAAATTCCTGACGCGCGCATATATTCGCGCAATTC!	GG711-2	(SH D NO: 97)
673	CCGAAATTCCTGACGCGCGCGCATATATTCGCGCAATTC!	GG711-3	(SH D NO: 98)
674	CCGAAATTCCTGACGCGCGCGCATATATTCGCGCAATTC!	GG711-4	(SH D NO: 99)
677	AAGCAATCCTGACGCGCGCGCATATATTCGCGCAATTC!	GG711-1	(SH D NO: 100)
678	AAGCAATCCTGACGCGCGCGCATATATTCGCGCAATTC!	GG711-2	(SH D NO: 101)
679	AAGCAATCCTGACGCGCGCGCATATATTCGCGCAATTC!	GG711-3	(SH D NO: 102)
680	AAGCAATCCTGACGCGCGCGCATATATTCGCGCAATTC!	GG711-4	(SH D NO: 103)
681	CATCAATTCCTGACGCGCGCGCATATATTCGCGCAATTC!	GG71-2	(SH D NO: 104)
682	CCGAAATTCCTGACGCGCGCGCATATATTCGCGCAATTC!	GG71-1	(SH D NO: 105)
683	CCGAAATTCCTGACGCGCGCGCATATATTCGCGCAATTC!	GG71-14	(SH D NO: 106)
684	CCGAAATTCCTGACGCGCGCGCATATATTCGCGCAATTC!	GG71-14	(SH D NO: 107)
685	CCGAAATTCCTGACGCGCGCGCATATATTCGCGCAATTC!	GG711-1	(SH D NO: 108)

Unique RNA primers for Factor II

Oligo	Sequence	Comment	
711	CATCAATTCCTGACGCGCGCGCATATATTCGCGCAATTC!	3' AAG	(SH D NO: 109)
712	AAGCAATTCCTGACGCGCGCGCATATATTCGCGCAATTC!	3' AAG	(SH D NO: 110)
713	CCGAAATTCCTGACGCGCGCGCATATATTCGCGCAATTC!	3' AAG	(SH D NO: 111)
721	CATCAATTCCTGACGCGCGCGCATATATTCGCGCAATTC!	5' AAG	(SH D NO: 112)
722	AAGCAATTCCTGACGCGCGCGCATATATTCGCGCAATTC!	5' AAG	(SH D NO: 113)
723	AAGCAATTCCTGACGCGCGCGCATATATTCGCGCAATTC!	EX-1	(SH D NO: 114)
726	CCGAAATTCCTGACGCGCGCGCATATATTCGCGCAATTC!	EX-1	(SH D NO: 115)
771	CATCAATTCCTGACGCGCGCGCATATATTCGCGCAATTC!	EX-1	(SH D NO: 116)
772	AAGCAATTCCTGACGCGCGCGCATATATTCGCGCAATTC!	EX-1	(SH D NO: 117)
773	AAGCAATTCCTGACGCGCGCGCATATATTCGCGCAATTC!	EX-1	(SH D NO: 118)
776	AAGCAATTCCTGACGCGCGCGCATATATTCGCGCAATTC!	EX-1	(SH D NO: 119)

Summary of contiguous GGF-II cDNA structures and sequences

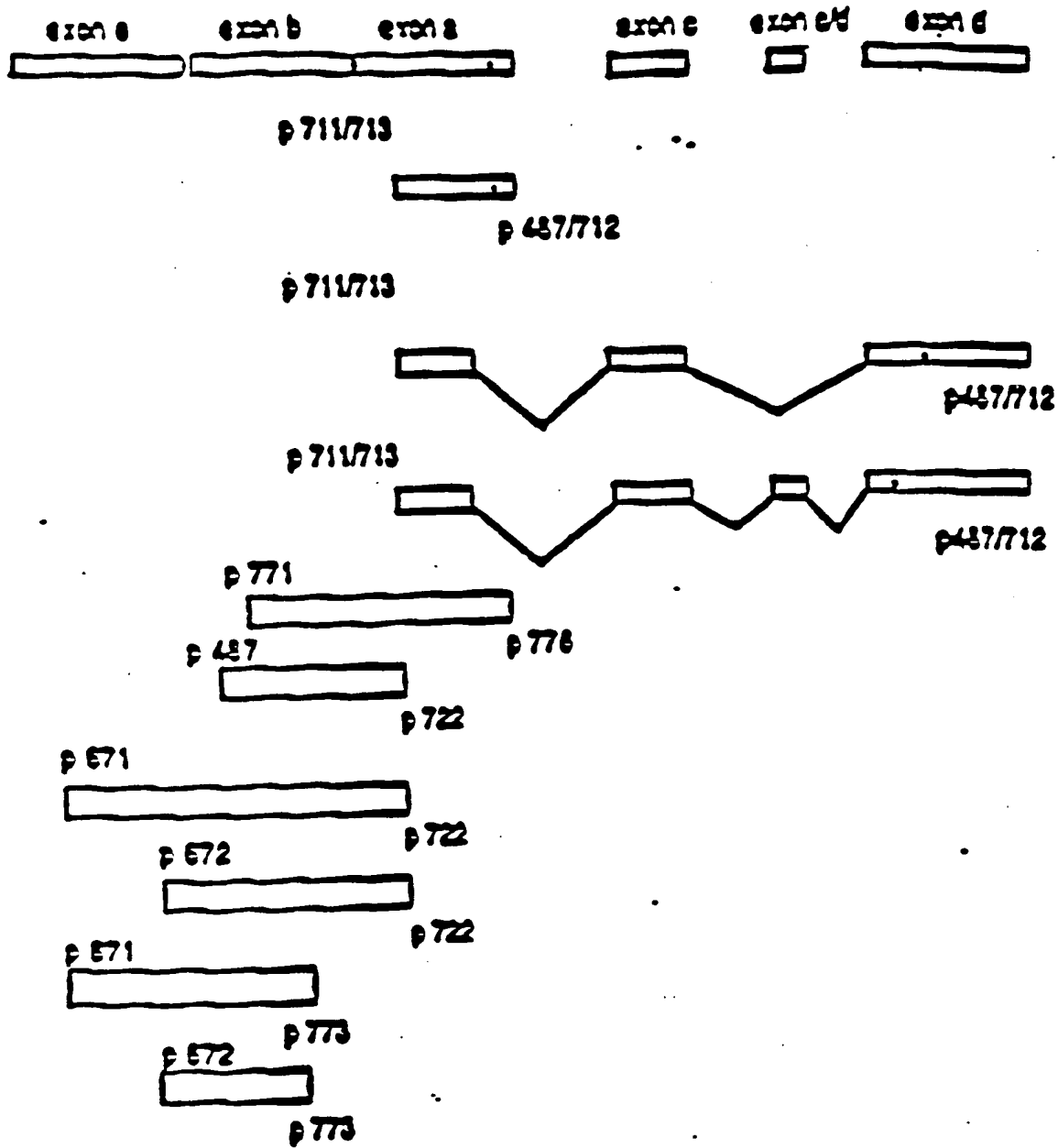


FIGURE 24

Alternative gene products of protein locus GDF-2

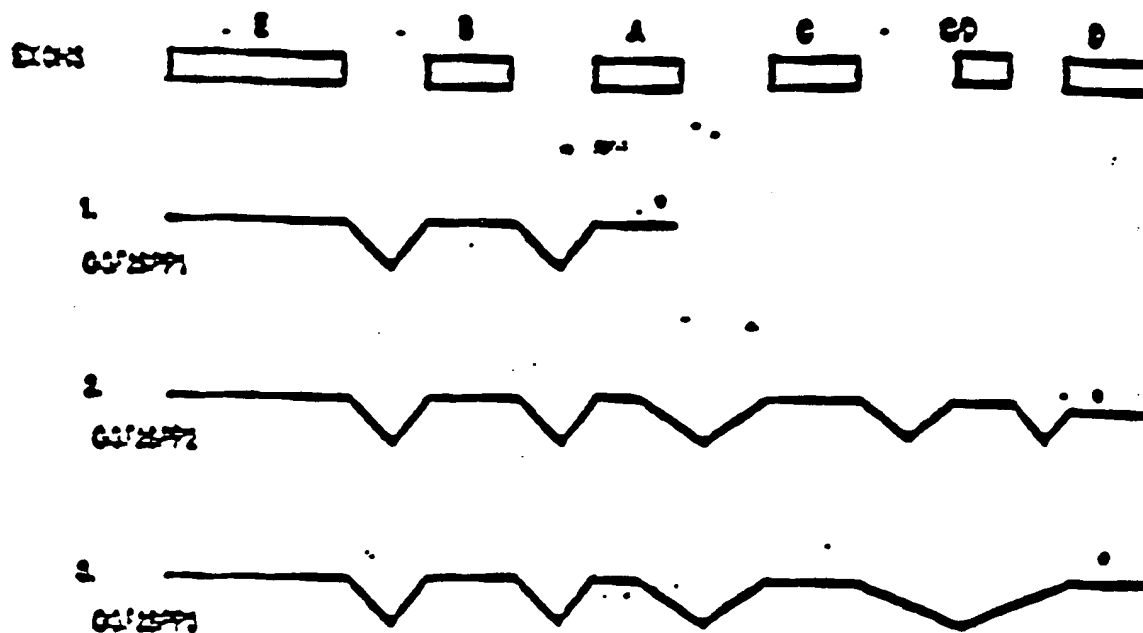
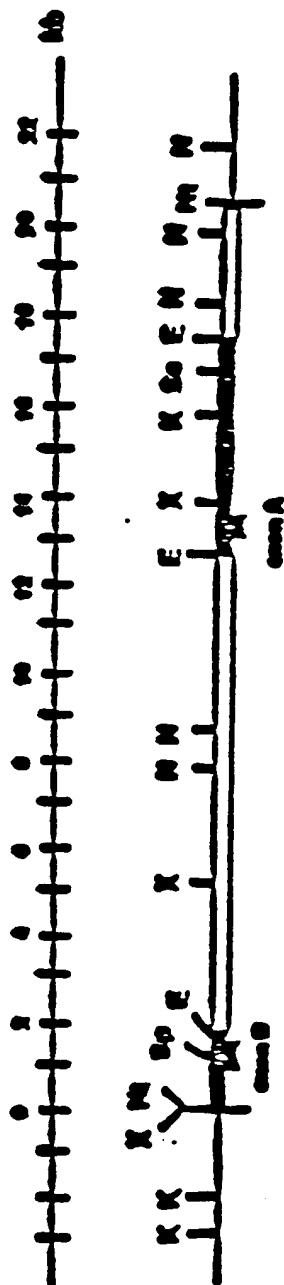


FIGURE 26

FIGURE 25



Peptide	Pos.	Sequence Match	
11-1	1:	VHGVWAAK HGVWAAK AAGLR	(SR ID NO: 120)
11-10	14:	GLLTV GLLTV GLLTV RLGAR.	(SR ID NO: 121)
11-03	21:	LLWPPAPFVTV LLWV LGLVHPAPFVTV RLGAR	(SR ID NO: 122) (SR ID NO: 123)
11-02	41:	YITWPELVSSG YITWV YITWPELVSSG CPTL	(SR ID NO: 124) (SR ID NO: 125)
11-6	103:	LVLR VAGV LVLR CPTL	(SR ID NO: 126)
1-18	112:	LYKLVKHTVQATV CPTL GYSLKLVKHTVQATV RLGAR	(SR ID NO: 127) (SR ID NO: 128)
11-12	151:	KLADSGVTK KLADSGVTK VITL	(SR ID NO: 129) (SR ID NO: 130)
1-07	152:	KLADSYVTK KLADSGVTK VITL	(SR ID NO: 131) (SR ID NO: 132)

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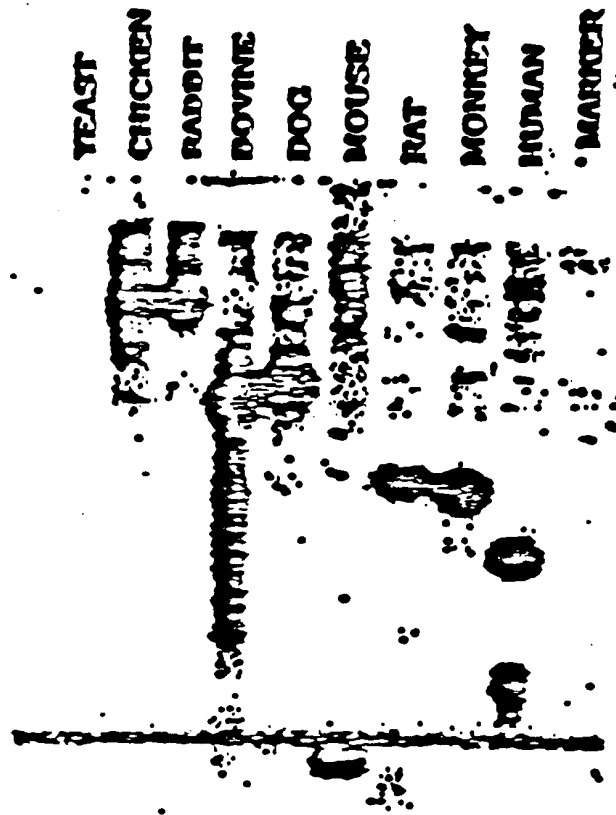
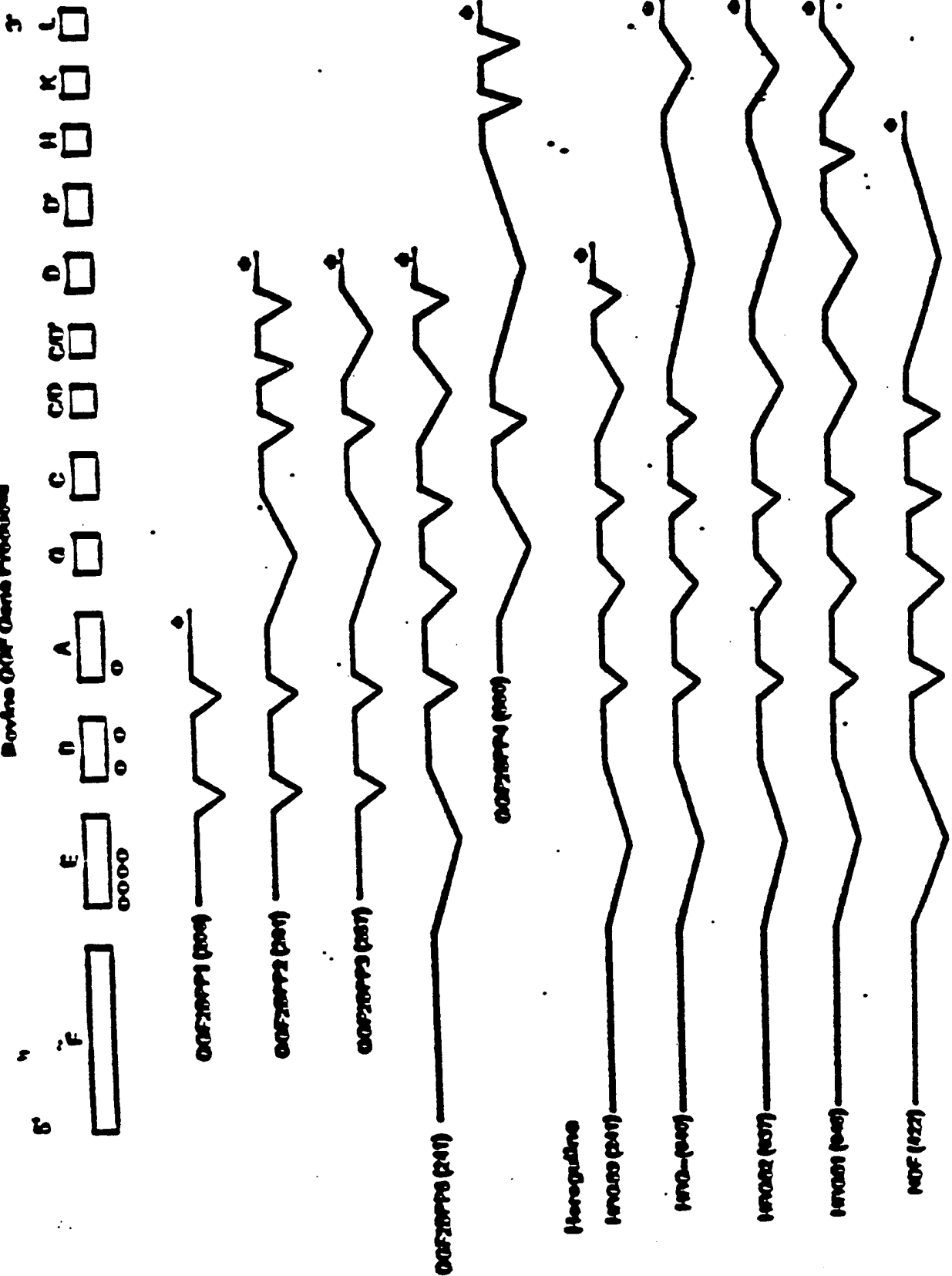


FIGURE 29

Victim 10

Boyle's Law



COPIES DESTROYED 71- (SER D NO: 136)

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CODING SEGMENT B: (SEQ ID NO: 134)

L P P R L K E K S Q E S V A G S L V
 C C T T C C C T C C C C C C T T C A A C A C A T C A A C A C T C A C C A C T C T C T C C A C C T T C C A A C T A C 60
 C C T T C C C T C C C C C C G A T T G A A G A G A T G A A A G C C A G G A A T C G G G C T G C A G G T T C C A A C T A G
 Q
 L R C E T S S E Y S S L K P K W P E N G 120
 T C C T T C C C T C C A C A C C A C C A C C A C C A C C T T C C A A C T C C T C T C T C A A C T T C A A C T C C T T C A A C A T C
 T C C T T C G G T G T G A A C C A G T T C T G A T A C T C C T C T C T C A G A T T C A G T T G T T C A A G A A T G
 R
 S E L S R K N E P Q N I K I Q K P G 180
 C C A C T C A A T T A A C C C A A C A A C A A C A A C A A C A T C A A C A T A C A C A A A C C C C C C
 G G A T T G A T T G A T C G A A A A C A A C A A A A A A T A C A A G A T A C A A A A A A G C A G G
 N N X

CODING SEGMENT A: (SEQ ID NO: 139)

K S E L R I S X A S L A D S G E Y N C K 60
 C C A C T C A A C A C C A T T C C A T T A C C A A A C C T C A A C C C A T T C C A A A T A T A T C C A A
 G A A G T C A G A A C T T C G C A T T A A C A A G A T C A C T G G C T G A T T C T G G G G T A T A T G C A A
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 V I S K L G N D S A S A N I I V E S N 120
 A C T C A T C A C C A A C A C C A A T C A A C C C C T C C C A A C A T C A C C A A T T T C A A C C A A
 A T T G A T C A G C A A A T T A G G A A T G A G G C C T C T G C C A A T A C A C A A T G A T C A A A
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CODING SEGMENT A'1: (SEQ ID NO: 140)

T C T A A A C T A C A C A C A C T G T A T T T C A T C A T C A T A G T T C T C A A T A T A C T T A A C 60
 I S E L R I S K A S L A D 120
 C C C T T T C C C T C C A T C T T C T A C C A A C T C A A C A A C T T C C A T T A C C A A C C C T A C T C C C T
 S G E Y N C K V I S K L G N D S A S A N 180
 A T T C T C C A C A A T A T A T C T C C A A A C A T C A C C A A A C T A C C A A T C A C A C T C C C T C C C A
 I T I V I S N C K R C L L R A I S O S I 240
 A C A T C A C C A T T G T C C A C T C A A C C C A A C A T C C C T A C T C C C T C C T A T T T C A C T C T C
 R C E K E E N 300
 T A A A C C A A T T A T C A A G G T A T C C C C A C A C C T T C A A T C A C C C A C C C C C C A A T C C A T

TCTACCAATTAATGAAAGAACTGATGTTTAAATGTTATGCTGCTC 360
 GTCTAACTGTTCACTGCAATGAATTAAGAGCTCAATATATATAGATTATT 417

CODING SEGMENT C: (SEQ ID NO: 141)

E I T T C K P A S T E T A Y V S S E S P I 60
 ACATCAACCAATGCAATGCAAGCTCAACACACCTATGCTGTTCAAGCTGCTCA
 AGATCATCATCTGTAATGCAAGCTCAACCTGAGGAGCATATGCTCTCAGGCTCTCA

R I S V S T E C T N T S S S 102
 TTACAAATATCAATATCAACAAAGCAATTAACCTGTTCAAT
 CTAAGATATCATCTGCAAGCTCAAGGAGCAATCACTCTCTCAAT

CODING SEGMENT C: (SEQ ID NO: 160)

T S T S T A C T S N L V K C A E K E K T 60
 CCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAAT
 CCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAAT

Y C V K C C E C P N V K D L S K P S R Y 120
 CCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAAT
 CCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAAT

L C 128
 AATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAATGCAAT

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GGT22P74 nucleotide sequence and deduced protein sequence

GAACTCAGAACTTCCATTACGAAAGCTCACTGCTCAATTCTGACAAATATCTCCAA 60
 K S E L R I S K A S L A D S G E Y H C K
 ACTCATCAGCACTACGAAATGACACTGCTCTGCTCCAAATCACTCAATTCTGACTCCAA 120
 V I S K L G N D S A S A N I T I V E S H
 CCCCACATCCACATCTACGCTGCTCCAAAGCCATCTTTCTCACTCTCAGACAAAGCAGAA 180
 A T S T S T A G T S H L V K C A E E E E
 AACTTTCTCTCTCAATCCAGGCTGCTCTTCACTGCTCCAAATCACTTTCAATCTGCTCAAG 240
 T F C V N G G D C F K V K D L S H P S R
 ATACTTTCTCACTGCTCCAACTGCTCAATCTCACTGCTCCAAATCTATCTCAATCTGCTCCAA 300
 Y L C K C G P C F T G A R C T E H V P H
 CAACTGCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCT 360
 K V Q T Q E K A E E L Y Q K R V L T I T
 CCCCATTCTCAATCTGCT 420
 C I C I A L L V V G I K C V V V Y C K T
 CAACTGCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCT 480
 K K Q R K K L H D R L R Q S L R S E R H
 CACCATCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCT 540
 T K K K V A N G P H H P H P P P E H V Q
 CCTGCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCT 600
 L V N Q Y V S K N V I S S E H I V E R E
 CCCCACACT 660
 A E S S F S T S H Y T S T A H H S T T V
 CACTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCT 720
 T Q T P S H S H S H G H T E S I I S S S
 CCACT 780
 H S V I V N S S V E H S R H S S P T G G
 CCCCACAACT 840
 P R G R L H G L G G P R E C H S P L R E
 TCCACAGAACT 900
 A R E T P D S T R D S P H S E R E H L I
 AACTCACTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCTCAATCT 960
 A E L R R H K A E R S K C K Q I Q L S A
 AACTCACTCAATCT 1020
 T K L R A S S I P H N A S F S E T P W P
 TTCACTCAATCT 1080
 L C R Y V S A H T T P A R K S P V D F H
 CACCTCAATCT 1140
 T P E S F F S F P S E H S P P T S S T T

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FIGURE 33

GGF2MMEKCAEKEKTFQVNGGECFMYKDLNPSRYLCKCPNEFTGDRCOXYVWASFY¹
GGF2MMEKCAEKEKTFQVNGGECFMYKDLNPSRYLCKCPGFTGARCTENYPWKYQ²
EEGE EOLFKYKDFQIH - GECKYKELFAPS — CKCOOEYFGEROGEKSXKTHS³

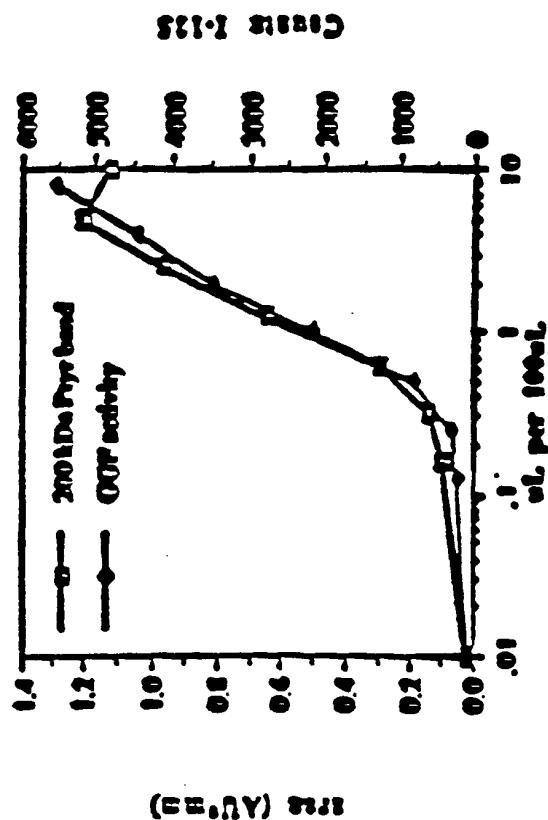
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2 (SEQ ID NO: 132)

3 (SEQ ID NO: 133)

FIGURE 36

200 kDa tyrosine phosphorylation compared with mitogenic activity



8-2-21

[illegible]

7-2-1-C-C-C/D-D
 7-2-1-C-C-C/D-H
 7-2-1-C-C-C/D-H-L
 7-2-1-C-C-C/D-H-X-L
 7-2-1-C-C-C/D-D'-H
 7-2-1-C-C-C/D-D'-H-L
 7-2-1-C-C-C/D-D'-H-X-L
 7-2-1-C-C-C/D-D'-D
 7-2-1-C-C-C/D-D'-H
 7-2-1-C-C-C/D-D'-H-L
 7-2-1-C-C-C/D-D'-H-X-L
 7-2-1-C-C-C/D-D'-D'-H
 7-2-1-C-C-C/D-D'-D'-H-L
 7-2-1-C-C-C/D-D'-D'-H-X-L
 7-2-1-C-C-C/D-D'-D'-D
 7-2-1-C-C-C/D-D'-D'-H
 7-2-1-C-C-C/D-D'-D'-H-L
 7-2-1-C-C-C/D-D'-D'-H-X-L
 7-2-1-C-C-C/D-D'-D'-D'-H
 7-2-1-C-C-C/D-D'-D'-D'-H-L
 7-2-1-C-C-C/D-D'-D'-D'-H-X-L

7-8-51

7-2-3-1-c-c/D-D
 7-2-3-1-c-c/D-H
 7-2-3-1-c-c/D-H-L
 7-2-3-1-c-c/D-H-X-L
 7-2-3-1-c-c/D-D'-H
 7-2-3-1-c-c/D-D'-H-L
 7-2-3-1-c-c/D-D'-H-X-L
 7-2-3-1-c-c/D'-D
 7-2-3-1-c-c/D'-H
 7-2-3-1-c-c/D'-H-L
 7-2-3-1-c-c/D'-H-X-L
 7-2-3-1-c-c/D'-D'-H
 7-2-3-1-c-c/D'-D'-H-L
 7-2-3-1-c-c/D'-D'-H-X-L
 7-2-3-1-c-c/D-c/D'-D
 7-2-3-1-c-c/D-c/D'-H
 7-2-3-1-c-c/D-c/D'-H-L
 7-2-3-1-c-c/D-c/D'-H-X-L
 7-2-3-1-c-c/D-c/D'-H
 7-2-3-1-c-c/D-c/D'-H-L
 7-2-3-1-c-c/D-c/D'-H-X-L
 7-2-3-1-c-c/D-c/D'-D'-H-X-L

7-1-3-1-4-4-4/0-0
 7-1-3-1-4-4-4/0-1
 7-1-3-1-4-4-4/0-1-2
 7-1-3-1-4-4-4/0-1-2-2
 7-1-3-1-4-4-4/0-0'-1
 7-1-3-1-4-4-4/0-0'-1-2
 7-1-3-1-4-4-4/0-0'-1-2-2
 7-1-3-1-4-4-4/0'-0
 7-1-3-1-4-4-4/0'-1
 7-1-3-1-4-4-4/0'-1-2
 7-1-3-1-4-4-4/0'-1-2-2
 7-1-3-1-4-4-4/0'-0'-1
 7-1-3-1-4-4-4/0'-0'-1-2
 7-1-3-1-4-4-4/0'-0'-1-2-2
 7-1-3-1-4-4-4/0-0-0
 7-1-3-1-4-4-4/0-0-0'-1
 7-1-3-1-4-4-4/0-0-0'-1-2
 7-1-3-1-4-4-4/0-0-0'-1-2-2
 7-1-3-1-4-4-4/0-0-0-0
 7-1-3-1-4-4-4/0-0-0-0'-1
 7-1-3-1-4-4-4/0-0-0-0'-1-2
 7-1-3-1-4-4-4/0-0-0-0'-1-2-2

8-3-21'

X-1-1-C-C/D-D
 X-1-1-C-C/D-X
 X-1-1-C-C/D-X-L
 X-1-1-C-C/D-X-X-L
 X-1-1-C-C/D-D'-X
 X-1-1-C-C/D-D'-X-L
 X-1-1-C-C/D-D'-X-X-L
 X-1-1-C-C/D'-D
 X-1-1-C-C/D'-X
 X-1-1-C-C/D'-X-L
 X-1-1-C-C/D'-X-X-L
 X-1-1-C-C/D-D'-X
 X-1-1-C-C/D-D'-X-L
 X-1-1-C-C/D-D'-X-X-L
 X-1-1-C-C/D-C/D'-D
 X-1-1-C-C/D-C/D'-X
 X-1-1-C-C/D-C/D'-X-L
 X-1-1-C-C/D-C/D'-X-X-L
 X-1-1-C-C/D-C/D'-X
 X-1-1-C-C/D-C/D'-X-L
 X-1-1-C-C/D-C/D'-X-X-L

Z-2-1-c-c-c/D-D
 X-2-1-c-c-c/D-X
 Z-2-1-c-c-c/D-X-L
 X-2-1-c-c-c/D-X-X-L
 Z-2-1-c-c-c/D-D'-X
 X-2-1-c-c-c/D-D'-X-L
 Z-2-1-c-c-c/D-D'-X-X-L
 X-2-1-c-c-c/D'-D
 Z-2-1-c-c-c/D'-X
 X-2-1-c-c-c/D'-X-L
 Z-2-1-c-c-c/D'-X-X-L
 X-2-1-c-c-c/D'-D'-X
 Z-2-1-c-c-c/D'-D'-X-L
 X-2-1-c-c-c/D'-D'-X-X-L
 Z-2-1-c-c-c/D-c/D'-D
 X-2-1-c-c-c/D-c/D'-X
 Z-2-1-c-c-c/D-c/D'-X-L
 X-2-1-c-c-c/D-c/D'-X-X-L
 Z-2-1-c-c-c/D-c/D'-D'-X
 X-2-1-c-c-c/D-c/D'-D'-X-L
 Z-2-1-c-c-c/D-c/D'-D'-X-X-L

ACCCATCTTCTCAAGTCTGCACACAGGAGGAAAATTCTCTCTCAATCGAGGCGAGTGC
 S H L V X C A Z X Z X T F C V N G G Z C
 TTCAATGCTGAAAGAGCTTTCAAAATGCTCAAGATACTTCTCAAGTGGCCAAATGAGTTT
 F K V X D L S N P S R Y L F X C P N Z F
 ACTGCTGATGCTGCGAAATGCTAGCTAAATGCGAGCTTCTACAGTACCTGCACTGCGTTT
 T G D R C Q N Y V X A S F Y S T S T P F
 CTCTCTCTGCTGAAATAG
 L S L P Z •

(SEQ ID NO: 154)

FIGURE 38

ACCCATCTCTCTCACTCTCTCAAGACAAAGCAAGAAAATTCTCTCTCTCAATCAAGCCCACTCTC
 S H L V K C A E X E X T F C V X G G E C
 TTCACTCTCAAGACACTCTCTCAATCTCTCAAGATACTCTCTCACTCTCAAGCTCTCTCACTCTC
 F H V K D L S H P S R Y L C X C Q P P P
 ACTCAAGCCCACTCTCTCACTCTCAAGATACTCTCTCAATCTCTCAAGCTCTCAAGCTCTCAAGCTCTCAAG
 T C A R C T E H V P X X V Q T Q E X A E
 CACTCTCTCTCA
 E L Y O

(SER ID NO: 135)

FIGURE 39

(SIR 20 20: 156)

A G C C A T C T T C T C A A C T C T C C A C A C A C C A C A A A C T T T C T C T C T C A A T C C A C C C A C T C C
 S H L V X C A Z X Z X T T C V H C C Z C
 T T C A T C C T C A A G A C C T T T C A A T C C C T C A G A T A C T T C T C A A C T C C A C C T C A T T C
 P H V X D L S H P S R Y L C X C Q P C P
 A C T C C A C C C A C A T C T A C T C A C A A T C T C C C A T C A A A C T C C A A C C C A G A A A A C T C C C A
 T C A R C T Z H V P H X V Q T Q Z X C P
 A A T C A C T T T A C T C C T C A T C C C T C C A A A C T A C C T A A T C C C A C C T T C T A C A C T A C C T C C
 H Z P T C D R C Q H Y V H A S P Y S T S
 A C T C C C T T T C T C T C T C T C C C T C A A T A C
 T P P L S L P Z

(S12 ID NO: 158)

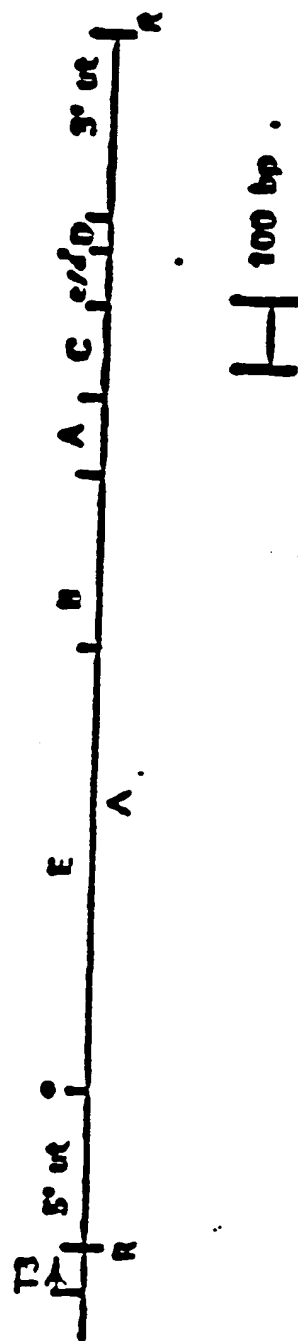
FIGURE 42

A C C A T T T T C A A C T T T C A C A C A A C C A C A A A A T T T T T T T T C A A T C A C C C A C T C C
 S H L V K C A E K E K T T C V H C C E C
 T T C A T C C T A A C A C C T T T C A A T C C C T C A A T A C T T T T C A A C T C C C A C C T C A T T C
 T H V K D L S H P S R Y L C K C C P C P
 A C T C A C C C A C A T C T A C T C A C A A T C T C C C A T C A A T C C A A C C C A C C A A C T C C C A
 T C A A R C T E H V P H K V Q T Q E K C P
 A A T C A C T T T A C C C T C A T C C C T C C A A A C T A C C T A A T C C C A C C T T T C A A A C C C A C
 H E T T C C D R C C H Y V H A S P Y K A E
 C A C C T T A C T A A
 E L Y

(SEQ ID NO: 159)

FIGURE 43

GGF2HBS5



Nucleotide sequence and deduced amino acid sequence of GCF21383

61
 121
 181
 241
 301
 361
 421
 481
 541
 601
 661
 721

M A V E E A P E E S C E
 P C P L A C A P C S A A A S S P L P L
 L P L L L L L C T A A L A P C A A A C M
 Y C L L L T V A A L P P T
 GCF21383
 E A A P A C A S V C Y S S P P S V C S V
 A S P V S V C S V
 GCF21383
 C S L A C R A A V V I E C E V E P C A A
 C S L V C R V P V Y I E C E
 GCF21383
 C C C A L D E E A A A A C E A C A N C
 C D E E P P A A C P A A L C P P A E E P
 L L A A N C T V P S E P T A P V P S A C

(SEQ ID NO: 167)

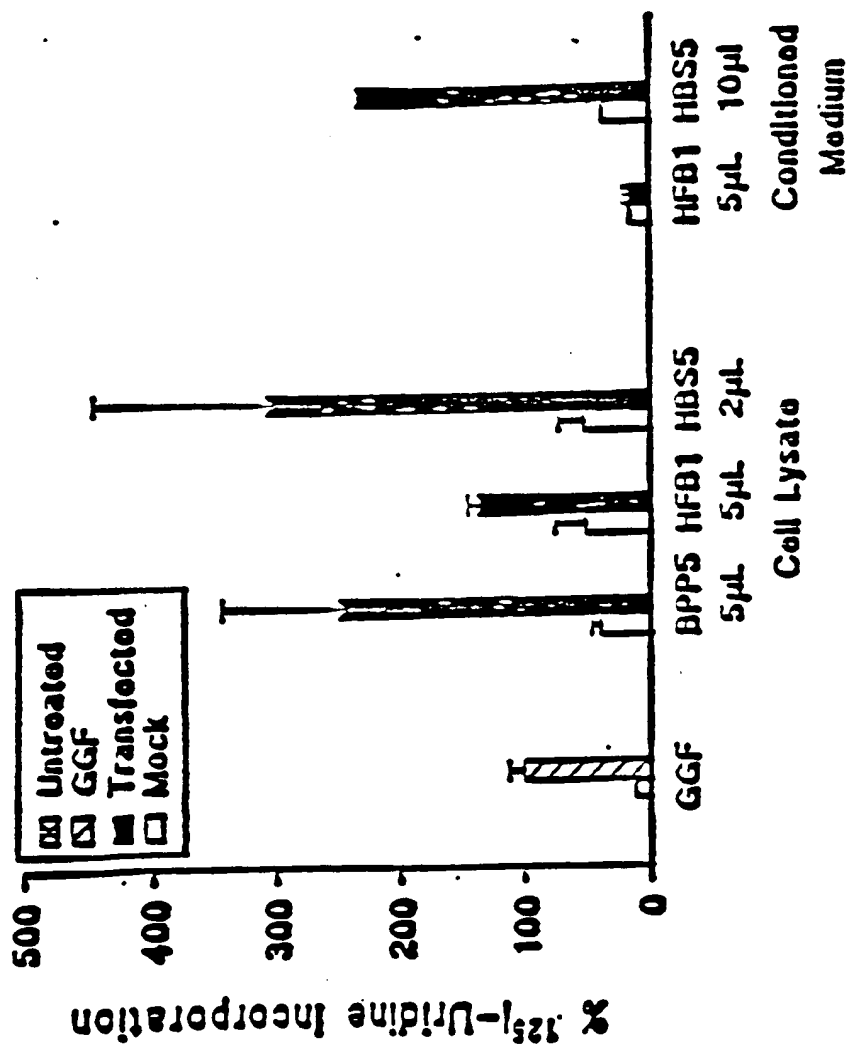
FIGURE 45 (1 of 3)

2380	•
2380	•
2440	•
2440	•
2500	•
2500	•
2560	•
2560	•
2620	•
2620	•
2680	•
2680	•
2740	•
2740	•
2800	•
2800	•
2860	•
2860	•
2920	•
2920	•
2980	•
2980	•
3040	•

FIGURE 45 (3 of 3)

SCHWANN CELL PROLIFERATION ASSAY

FIGURE 46



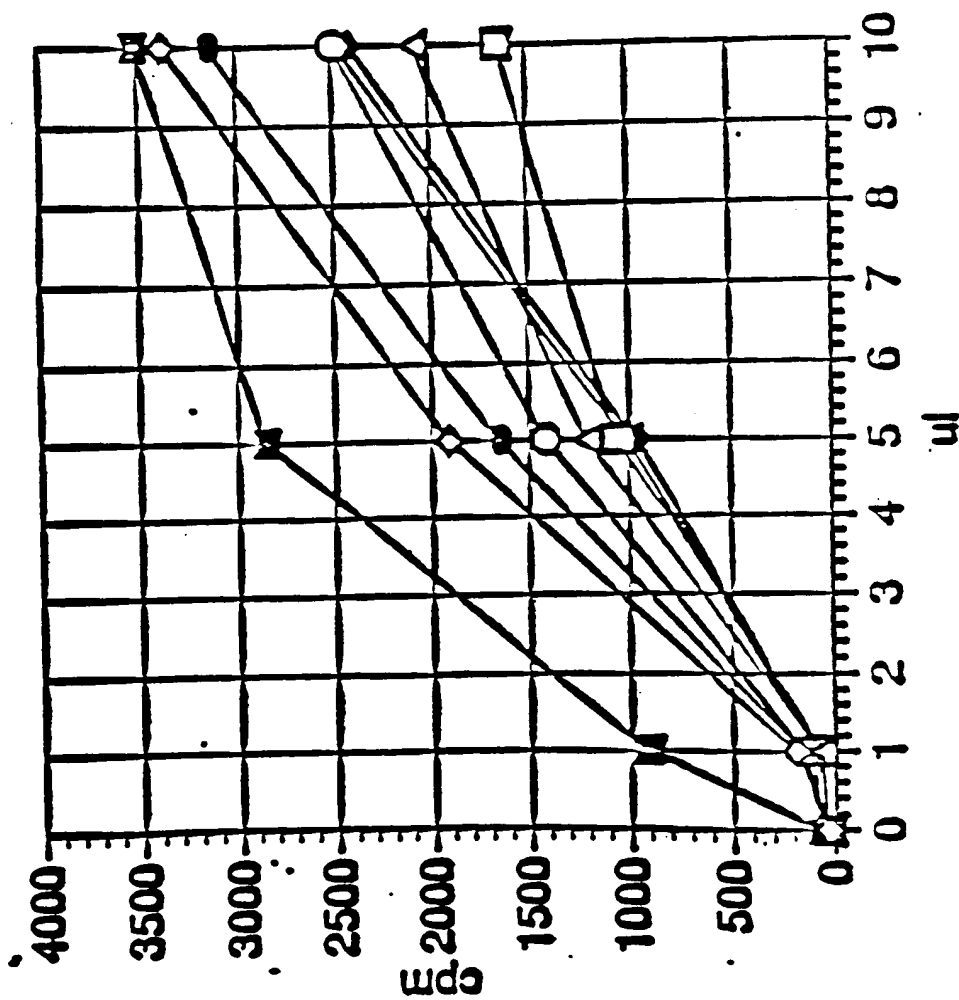
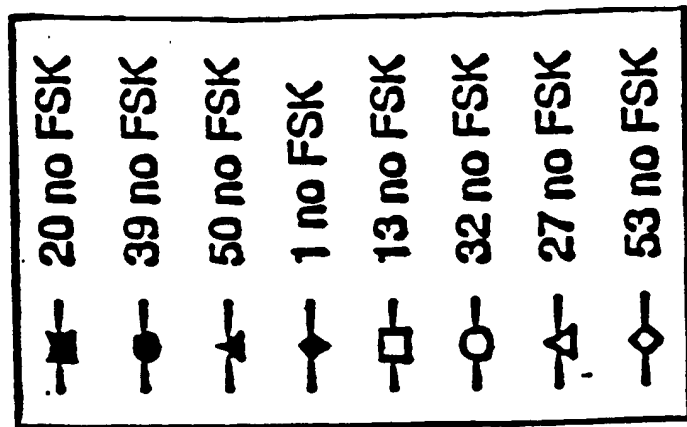
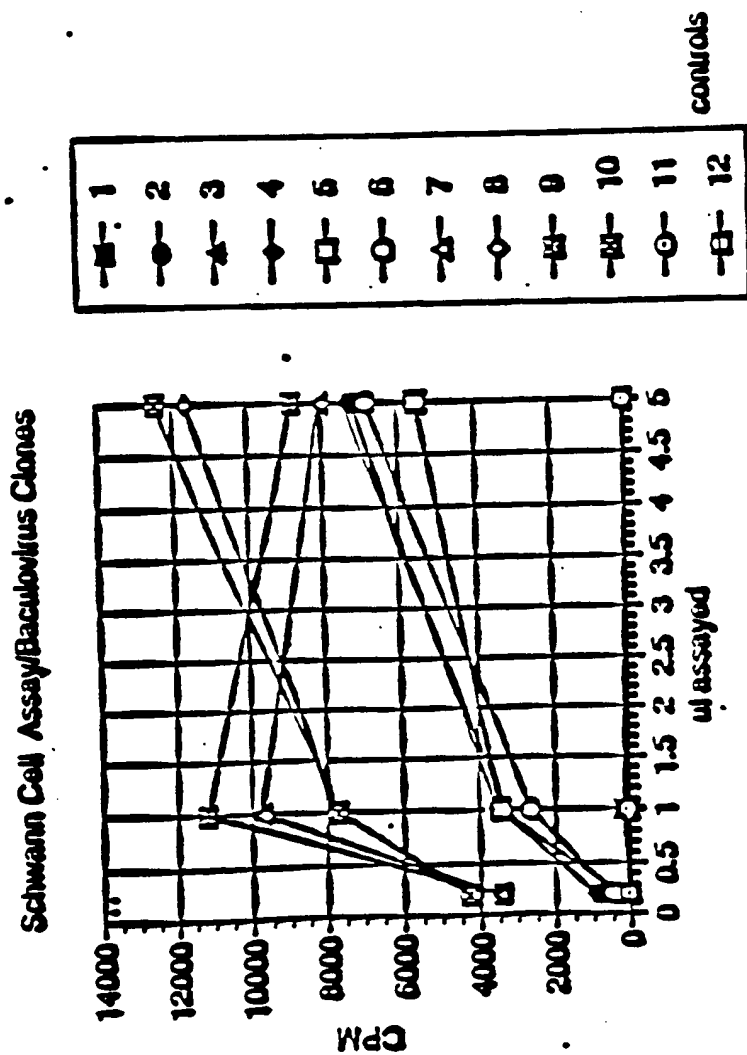
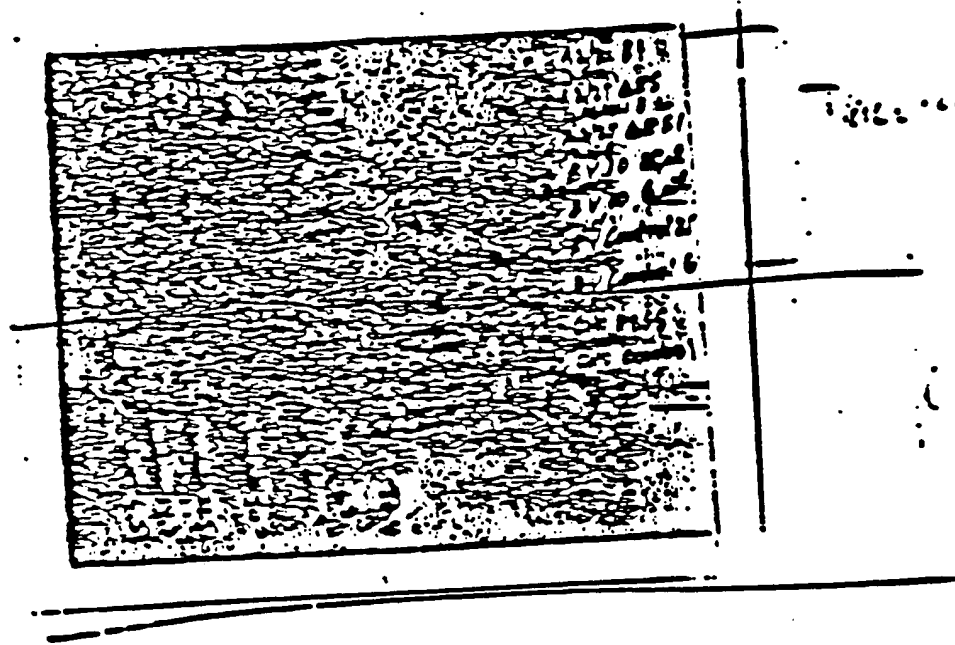


FIGURE 4B



08/734592

FIGURE 49



08/734592

CPM 11-121: Descriptive Information

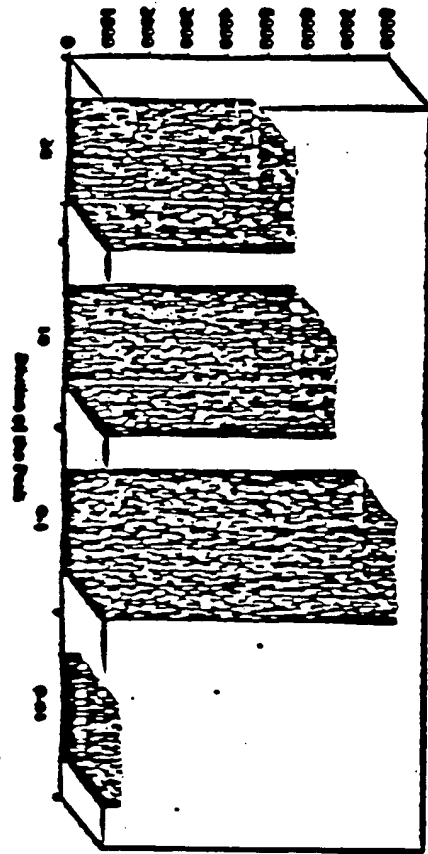


FIGURE 50A

08/734592

FIGURE 503

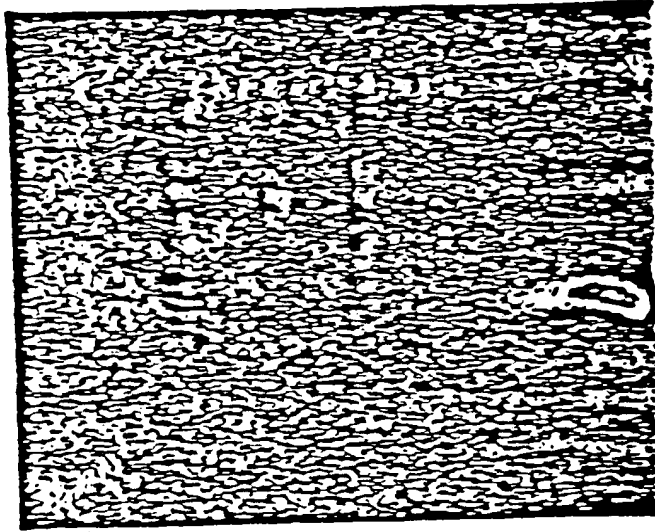


FIGURE 51

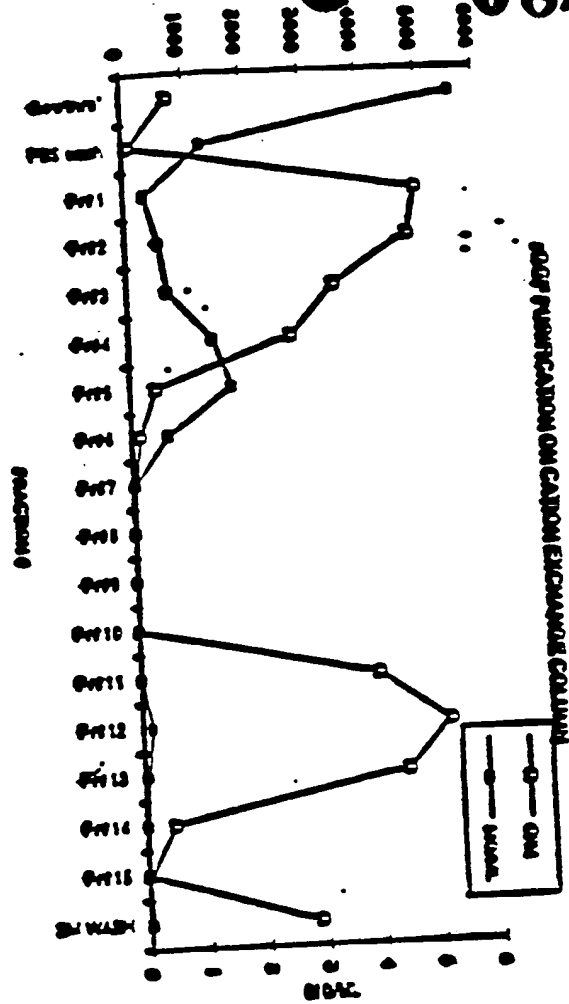
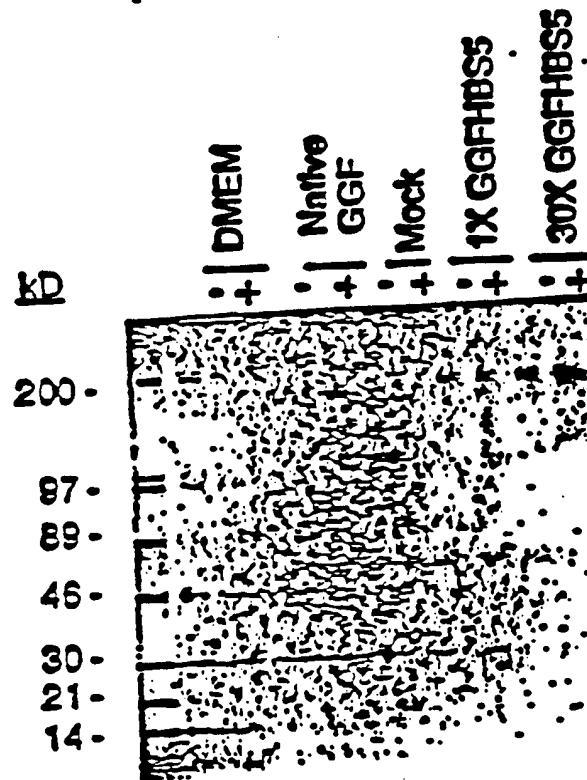


FIGURE 52.



1

[illegible]

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977555P-CW5W071-0081A-VV125V1H00R8000A1-20K1A1A-00T00A1W000R00P1A1

11-1 11-10

121 **11-2** **11-2**

[illegible]

2

COPIES	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693
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SEQ ID NO: 171
SEQ ID NO: 172

III-14
III-17, 1-8, 12-15,
III-17
III-17

[illegible]

10-12

990 KATOLONGSACNITIVAM.....ADPH
999 PLYTONARTHOA VESPER INTERTRONISSA

11-19

173 TOTAL VOLUME OF FLOW OF WATER IN THE COLUMBIAN RIVER

11

419 *********
 212 *********
 223 *********

Fig. 31

